



# SUNGARD ALIGNE INTEGRATION & INTERFACE

Integrated energy  
transaction solutions.  
Data | Understanding |  
Action

## Market Interconnects - ICE Interface

Front to Back Information Flow

### Overview

The ICE Interface is designed to allow deals executed on the Intercontinental Exchange (via the ICE proprietary trading system) to electronically flow into the trading front office for full reporting, valuation, and risk analysis.

### Key Features

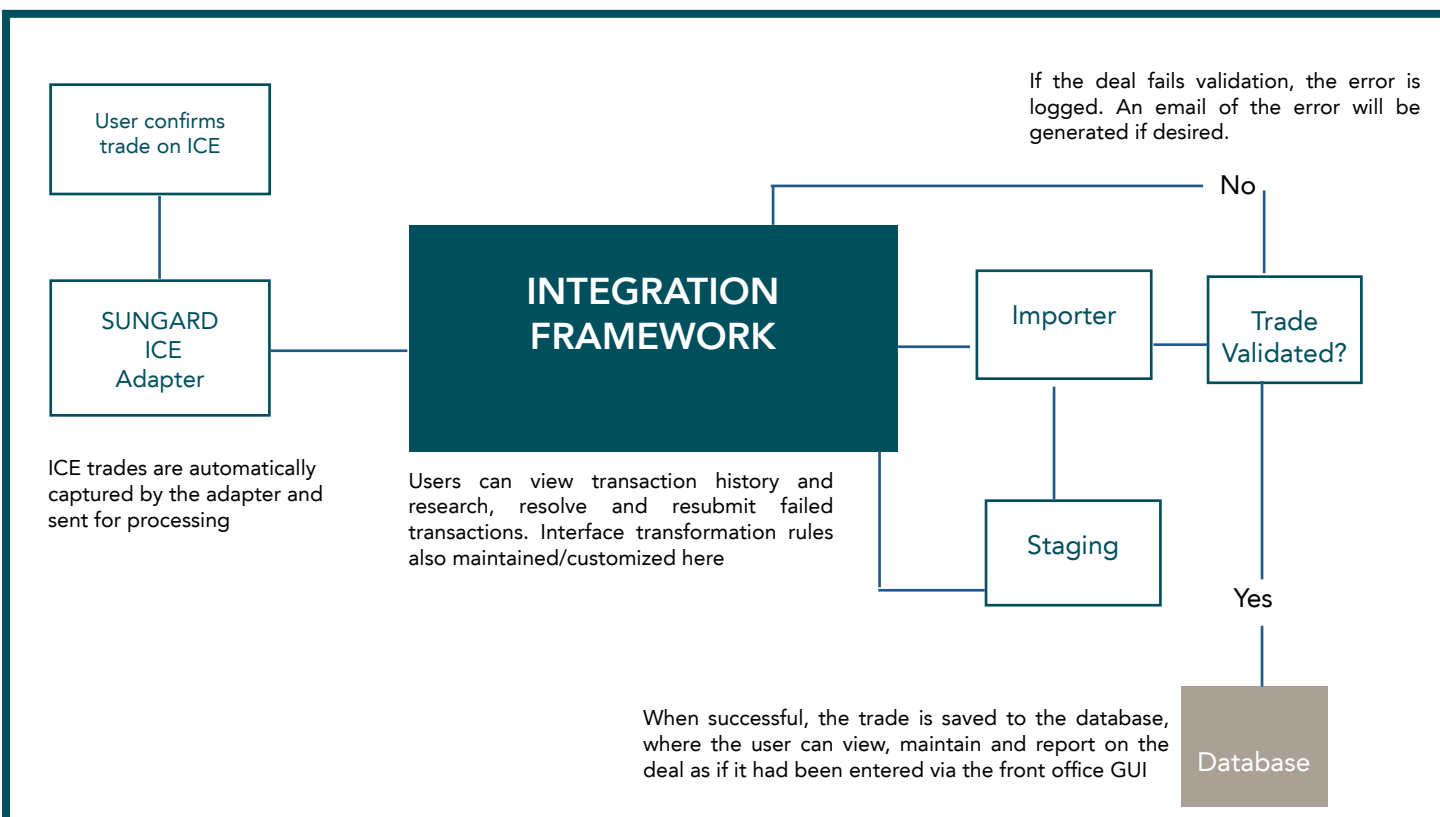
- Electronically captures deals from ICE and imports them into for valuation and risk analysis
- Supports power and natural gas trades
- Supports fixed and indexed physicals, basis, fixed, and float swaps, and options
- Provides real-time capability
- Provides user with a spreadsheet-like GUI for viewing and selecting trade data to be imported

### Key Business Benefits

- ICE fully integrates with Trades automatically uploaded into the trading front office from ICE
- Provides centralized error handling
- Provides architecture that supports future expansion to other exchanges, brokers, and online trading systems
- Highly configurable via templates
- User defined interface timing

### Straight Through Processing

The ICE Interface allows trading organizations to ICE automatically upload trades executed on the Intercontinental Exchange directly into the trading front office. The elimination of redundant data entry and the inclusion of ICE trades provide for a more efficient front office, a more accurate trade capture process, and a more complete view of trading activity.



Traders continue to use the ICE trading system as they currently do: entering bids and offers as well as confirming executed trades. There is no difference on the front end. On the back end, once the trades are confirmed in ICE, the ICE Interface receives these confirmed deals and does any required data transformation to match the database standards. With the Graphical User Interface, users can easily identify, filter, and select transactions to be imported from ICE.

The ICE Interface includes an Interface Staging Environment with its own Graphical User Interface. This gives users the option of storing, viewing, and modifying any ICE trade data before it is passed through to the trading front office. Here, users can configure any templates and rules that should be applied to incoming ICE trades, such as automatic default values e.g. book, trade group). The GUI displays the deals in a spreadsheet-like view and includes filter functionality. Users can edit designated fields and configure the Interface to import some or all of a given trade's data. Depending on the configuration selected, trades from ICE can be imported in real time, at pre-determined schedules, or by a user-initiated batch process. If the Interface is configured as real-time or scheduled, then no user review and intervention is required before the trades are imported.

As trades are passed into the trading front office, they undergo a validation process that identifies any data errors. Users are alerted to errors via the GUI, where they can view, modify, and correct any invalid information. The corrected trade is then passed through again for re-validation. Once the ICE trades are passed through, they receive the full benefit of SunGard's transaction management and reporting features, including full audit tracking. The trades originating from ICE can be uniquely identified as ICE trades for viewing and reporting purposes. These ICE trades automatically populate all relevant reports, screens, and credit totals in real time. This real-time straight through processing provides the front and middle office with a complete view of the entire trading portfolio.

#### Technical Architecture

The ICE Interface uses the published API provided by the Intercontinental Exchange to retrieve data from the Exchange. The Interface consists of an ICE Adapter and an Interface Staging Environment which is fully integrated with the trading front office. SunGard consultants are available to facilitate implementation and customization as needed.

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## ABOUT SUNGARD ENERGY SOLUTIONS

SunGard's energy solutions help energy companies, industrials and financial services, to efficiently compete in global energy markets by streamlining and integrating the trading, risk management and operations of physical commodities and their associated financial instruments. These solutions provide front to back-office support for capturing deals, delivering market data for valuation, clearing and reconciliation of transactions, invoicing and accounting for transactions, analysis and management of risk, and physical transmission or delivery of commodities. SunGard Energy Solutions also support the logistics and inventory of fuels used in producing power and industrial products.

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